

Application Serial No. 10/616,057
Amendment dated July 15, 2005
Notice of Allowance Mailed June 17, 2005

Listing of claims:

- 1 1. (Currently Amended) A solenoid fuel drain valve for a closed fuel system, the
2 solenoid drain valve comprising a valve body, having a [[fuel]] chamber, a drain hole and
3 an air inlet opening, a solenoid coil and a piston, the drain hole having a drain inlet and a
4 drain outlet, and the piston being arranged within the valve body to be moveable between
5 a closed condition, wherein the drain hole and the air inlet opening are sealed, and an
6 open condition, wherein the drain hole and the air inlet opening are open to allow air into
7 the system to facilitate draining of [[fuel]] water and other contaminants from the system,
8 movement of the piston being controlled by the solenoid.
- 1 2. (original) A solenoid fuel drain valve according to claim 1, wherein the valve
2 body defines an interior chamber into which the air inlet opening and the drain hole open.
- 1 3. (original) A solenoid fuel drain valve according to claim 1, wherein the valve
2 body comprises an air passage connecting the air inlet opening to an air source.
- 1 4. (original) A solenoid fuel drain valve according to claim 1, wherein the valve
2 body comprises a drain passage connecting the drain inlet to the drain outlet.
- 1 5. (original) A solenoid fuel drain valve according to any one of the preceding
2 claims, wherein the valve body comprises more than one air inlet opening.
- 1 6. (original) A solenoid fuel drain valve according to claim 1, wherein the piston
2 comprises a rod and a head.
- 1 7. (original) A solenoid fuel drain valve according to claim 6, wherein the head is
2 attached to the rod.

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1 8. (original) A solenoid fuel drain valve according to claim 6, wherein the head is
2 separate from the rod and moved by means of the rod.

1 9. (original) A solenoid fuel drain valve according to claim 6, wherein the head is
2 adapted to provide a means of sealing at least one of the drain hole and the air inlet
3 opening.

1 10. (original) A solenoid fuel drain valve according to claim 9, wherein the head is
2 adapted to seal both of the drain hole and the air inlet opening.

1 11. (original) A solcnoid fuel drain valve according to claim 6, whercin the piston
2 comprises two or more heads, each of which may be independently attached to or
3 separate from the rod.

1 12. (original) A solenoid fuel drain valve according to claim 11, wherein the piston
2 comprises a first head attached to the rod and a second head separate from but moved by
3 the rod.

1 13. (original) A solenoid fuel drain valve according to claim 12, wherein the rod
2 comprises a flange extending therefrom to interact with the second head in use and effect
3 movement of the second head upon movement of the rod.

1 14. (previously amended) A solenoid fuel drain valve according to claim 6, wherein
2 the piston is arranged in the valve body such that at least part of the rod extends through
3 the drain hole.

1 15. (original) A solenoid fuel drain valve according to claim 1, comprising a
2 solenoid armature of magnetisable material attached to the piston.

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1 16. (original) A solenoid fuel drain valve according to claim 15, wherein the
2 solenoid armature and the piston are arranged such that energization and de-energization
3 of the solenoid effects movement of the solenoid armature, which in turn causes
4 movement of the piston.

1 17. (original) A solenoid fuel drain valve according to claim 15, comprising a
2 solenoid stem of magnetisable material.

1 18. (original) A solenoid fuel drain valve according to claim 17, wherein the
2 solenoid stem is arranged within the valve body such that energization of the solenoid
3 coil causes a magnetic field to be induced in the solenoid stem and the solenoid armature.

1 19. (original) A solenoid fuel drain valve according to claim 1, comprising biasing
2 means to bias the piston into either the closed or open position.

1 20. (original) A solenoid fuel drain valve according to claim 19, wherein the biasing
2 means is one or more spring.

1 21. (original) A solenoid fuel drain valve according to claim 19, wherein the valve
2 further comprises a retaining surface against which the biasing means acts to provide the
3 biasing force.

1 22. (cancelled) A solenoid fuel drain valve for a closed fuel system, the solenoid
2 drain valve comprising a valve body, having a drain hole and an air inlet opening, a
3 solenoid coil and a piston, the drain hole having a drain inlet and a drain outlet, and the
4 piston being arranged within the valve body to be moveable between i) a closed

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- 5 condition, wherein the drain hole and the air inlet opening are sealed, and ii) an open
6 condition, wherein the drain hole and the air inlet opening are open to allow air into the
7 system to facilitate draining of fuel from the system, movement of the piston being
8 controlled by the solenoid.